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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/444,541	11/22/1999	PAUL R. GAGON	BBE1199CIP	8794
75	590 11/22/2004		EXAM	INER
FOLEY & LARDNER 2029 CENTURY PARK EAST SUITE 3500			LEE, PING	
			ART UNIT	PAPER NUMBER
LOS ANGELE	S, CA 90067-3000		2644	
			DATE MAILED: 11/22/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/444,541	GAGON, PAUL R.			
Office Action Summary	Examiner	Art Unit			
	Ping Lee	2644			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mineral patent term adjustment. See 37 CFR 1.704(b).	N. R.1.136(a). In no event, however, may a reply within the statutory minimum of thi iod will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 15	5 October 2004.				
2a)⊠ This action is FINAL . 2b)☐ T	This action is FINAL . 2b) This action is non-final.				
3) Since this application is in condition for allo					
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.			
Disposition of Claims	-	•			
4)⊠ Claim(s) <u>11-26</u> is/are pending in the applica	ation.				
4a) Of the above claim(s) 19-24 is/are withd					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>11-18,25,26</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exam	iner.				
10) The drawing(s) filed on is/are: a) a		by the Examiner.			
Applicant may not request that any objection to t					
Replacement drawing sheet(s) including the corr					
11)☐ The oath or declaration is objected to by the					
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
1. Certified copies of the priority docume					
2. Certified copies of the priority docume					
3. Copies of the certified copies of the p		received in this National Stage			
application from the International Bure					
* See the attached detailed Office action for a l	ist of the certified copies not	received.			
Attachment/c\					
Attachment(s) 1) Notice of References Cited (PTO-892)	∧ □ _{[-1}	(DTO 442)			
2) Dotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(Summary (PTO-413) (s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/	08) 5) Notice of I	Informal Patent Application (PTO-152)			
Paper No(s)/Mail Date	6)	_			

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DETAILED ACTION

Election/Restrictions

1. Claims 19-24 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 10/16/03. See also the office action mailed on 1/15/04.

Claim Objections

2. Claim 20 is objected to because of the following informalities: the status identifier "(Previously presented)" should be corrected as –(Withdrawn)--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 11-18, 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bohn (US 4,891,841) in view of Gagon (US 5,736,897).

Regarding claims 18, 11-14, Bohn shows the all pass phase inverter (80) having an input coupled to receive the program signal (15) and an output providing an inverted program signal (to R5), a band pass filter having a predetermined Q (45) and an input

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connected (according to Webster's dictionary, connected means joined or linked together; Fig. 1 clearly shows that the band-pass filter 45 is joined or linked to the program signal 15) to the program signal (15) to receive the program signal (15) and to provide an inverted program signal (to 25), and a summing amplifier (35) for adding the inverted program signal (from 80) to the inverted band-pass boosted program signal (from 45) and for providing a composite output signal (40). Bohn fails to show the input buffer.

Gagon teaches an input buffer means with a state-variable filter for providing buffering, compensation for high, mid and low frequencies separately and automatic balancing of the mid and high frequency signals. This input buffer means could be used for receiving the signal from a tape player and compensating the bandwidth imposed by the dynamic range of the tape. Bohn's system was useful to adjust the frequency equalization in recording and broadcast industries (co. 1, lines 14-15). One skilled in the art would have expected that the source in Bohn's system would receive input from any medium, such as tape, for recording and broadcasting. Thus, it would have been obvious to one of ordinary skill in the art to modify Bohn's system by incorporating the input buffer means as taught in Gagon in order to modify and improve the dynamic range of the signal from a tape player.

Regarding claims 15-17, Bohn fails to show the power amplifier and the speaker means. However, Bohn teaches that the equalizer is used for processing the audio signal. It was well known in the art to reproduce acoustic sound by using a speaker means connected to an equalizer and a power amplifier. Thus, it would have been

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obvious to one of ordinary skill in the art to reproduce the sound using well known speaker means and power amplifier connected to the signal generated by Bohn's system in view of Gagon in order to have an equalizer compensating the signal from a narrow dynamic range, such as the one from a tape player.

5. Claims 11-18, 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gagon (US 5,736,897) in view of Bohn (US 4,891,841).

Regarding claims 18, 11-14, Gagon shows the structure of the state-variable filter input buffer means, but fails to show the all pass phase inverter (80), a band pass filter having a predetermined Q (45) and a summing amplifier (35). Bohn teaches an equalizer using such components to provide independent and smooth band equalizing. Thus, it would have been obvious to one of ordinary skill in the art to modify Gagon's system by using the equalizer as taught in Bohn to further improve the audio signal response with smooth band equalizing.

Regarding claims 15-17, neither Gagon nor Bohn shows the power amplifier and the speaker means. However, both Gagon and Bohn teach that the device is used for processing the audio signal. It was well known in the art to reproduce acoustic sound by using a speaker means connected to an equalizer and a power amplifier. Thus, it would have been obvious to one of ordinary skill in the art to reproduce the sound using well known speaker means and power amplifier connected to the signal generated by Gagon's system in view of Bohn in order to generate an improved sound signal from a source with a narrow dynamic range, such as the one from a tape player.

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Response to Arguments

6. Applicant's arguments filed 10/15/04 have been fully considered but they are not persuasive.

Applicant argued that the claims have been amended as suggested by examiner during the telephone interview on Thursday 09/02/04. Therefore, the claims overcame rejected based on Bohn in view of Gagon or Gagon in view of Bohn.

It is noticed that examiner suggested the applicant to clearly define the connection between the input buffer and the band-pass filter such that the output of the input buffer is directly connected to the input of the band-pass filter. Bohn reference fails to show such a direct connection. The newly amended claims merely stated that the input of the band-pass filter is connected to the output of the input buffer. This limitation fails to clearly define the connection between the input buffer and the band-pass filter as disclosed in Fig. 1. According to dictionary, "connected" means joined or linked together. Bohn shows the input of the band-pass filter (45) is linked or joined together to the program signal. Therefore, the newly amended claims are still being rejected under Bohn in view of Gagon or Gagon in view of Bohn.

Conclusion

7. This is a continuation of applicant's earlier Application No. 09/444,541. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL**

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even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ping Lee whose telephone number is 703-305-4865.

The examiner can normally be reached on Monday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on 703-305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brimary Examiner
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pwl